

## **Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

1 1. (Presently Amended) A method for producing a plastic film having improved  
2 characteristics, comprising forming the plastic film by extrusion from an extruder  
3 nozzle, the film emerging from the nozzle in a melted state, distributing at least one  
4 active substance on at least one face of the film, in a region of the film having a  
5 temperature higher than the ambient temperature such that the active substances  
6 penetrate into and are retained within the film to form a single body of film, cooling  
7 the film downstream of the extruder nozzle to a solidified state at ambient  
8 temperature wherein the one or more substances are permanently incorporated in  
9 the body of the film in the solidified state to modify selected characteristics of the  
10 film wherein said active substance provides said film with a "barrier effect"  
11 characteristic against the absorption of aromas, water vapor or UV rays.

2-5 Canceled.

1 6. (Original) The method according to claim 1, wherein said active substance  
2 provides said film with a "barrier effect" characteristic against the absorption of  
3 aromas, water vapor or UV rays.

1 7. (Presently Amended) The method according to claim 1 6, wherein said active  
2 substances are selected from the group consisting of:  
3 dispersions of EVOH or PVOH:  
4 polyvinyl acetate (PVAC) dispersions;  
5 dispersions of ethylene-acrylic acid (EAA) or methacrylic acid copolymer;  
6 UV cross-linking acrylic resins;  
7 acrylic (styrene acrylic) disperse systems);

8 styrene-butadiene dispersions.

1 8. (Presently Amended) A method for producing a plastic film having improved  
2 characteristics, comprising forming the plastic film by extrusion from an extruder  
3 nozzle, the film emerging from the nozzle in a melted state, distributing at least  
4 one active substance on at least one face of the film, in a region of the film  
5 having a temperature higher than the ambient temperature such that the active  
6 substances penetrate into and are retained within the film to form a single body  
7 of film, cooling the film downstream of the extruder nozzle to a solidified state at  
8 ambient temperature wherein the one or more substances are permanently  
9 incorporated in the body of the film in the solidified state to modify selected  
10 characteristics of the film ~~The method according to claim 1, wherein said active~~  
11 ~~substance gives said film characteristics of high flow and surface slipperiness.~~

1 9. (Original) The method according to claim 8, wherein said active substance is an  
2 amide.  
3

4 10. (Presently Amended) A method for producing a plastic film having improved  
5 characteristics, comprising forming the plastic film by extrusion from an extruder  
6 nozzle, the film emerging from the nozzle in a melted state, distributing at least  
7 one active substance on at least one face of the film, in a region of the film  
8 having a temperature higher than the ambient temperature such that the active  
9 substances penetrate into and are retained within the film to form a single body  
10 of film, cooling the film downstream of the extruder nozzle to a solidified state at  
11 ambient temperature wherein the one or more substances are permanently  
12 incorporated in the body of the film in the solidified state to modify selected  
13 characteristics of the film ~~The method according to claim 1, wherein said active~~  
14 ~~substances makes said film a crosslinking promoter.~~

1 11. (Original) The method according to claim 10, wherein said active substance is  
2 zinc stearate and/or caprolactam.

1 12. (Presently Amended) A method for producing a plastic film having improved  
2 characteristics, comprising forming the plastic film by extrusion from an extruder  
3 nozzle, the film emerging from the nozzle in a melted state, distributing at least  
4 one active substance on at least one face of the film, in a region of the film  
5 having a temperature higher than the ambient temperature such that the active  
6 substances penetrate into and are retained within the film to form a single body  
7 of film, cooling the film downstream of the extruder nozzle to a solidified state at  
8 ambient temperature wherein the one or more substances are permanently  
9 incorporated in the body of the film in the solidified state to modify selected  
10 characteristics of the film ~~The method according to claim 1~~, wherein said active  
11 substance comprises a material that reacts when subsequently exposed to a  
12 selected treatment.

1 13. (Original) The method according to claim 12, wherein said active substance is  
2 an oxidizing salt.

1 14. (Presently Amended) A method for producing a plastic film having improved  
2 characteristics, comprising forming the plastic film by extrusion from an extruder  
3 nozzle, the film emerging from the nozzle in a melted state, distributing at least  
4 one active substance on at least one face of the film, in a region of the film  
5 having a temperature higher than the ambient temperature such that the active  
6 substances penetrate into and are retained within the film to form a single body  
7 of film, cooling the film downstream of the extruder nozzle to a solidified state at  
8 ambient temperature wherein the one or more substances are permanently  
9 incorporated in the body of the film in the solidified state to modify selected  
10 characteristics of the film ~~The method according to claim 1~~, wherein identical or  
11 different active substances are nebulized on both faces of the film.

1 15. (Presently Amended) A method for producing a plastic film having improved  
2 characteristics, comprising forming the plastic film by extrusion from an extruder

3 nozzle, the film emerging from the nozzle in a melted state, distributing at least  
4 one active substance on at least one face of the film, in a region of the film  
5 having a temperature higher than the ambient temperature such that the active  
6 substances penetrate into and are retained within the film to form a single body  
7 of film, cooling the film downstream of the extruder nozzle to a solidified state at  
8 ambient temperature wherein the one or more substances are permanently  
9 incorporated in the body of the film in the solidified state to modify selected  
10 characteristics of the film ~~The method according to claim 1,~~ wherein said active  
11 substance is constituted by microcapsules or micropearls which contain  
12 substances which are suitable to combine and/or interact with the film and whose  
13 shell withstands the temperatures of the region of the film in which they are  
14 introduced and can subsequently be activated in order to release the contents  
15 due to the application of energy obtained for example with ultraviolet rays,  
16 ultrasound or electromagnetic radiation.

16. Canceled